EQUIPMENT FOR PARTIAL OXIDATION REACTIONS

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Equipment for carrying out partial oxidation reactions characterized in that it essentially comprises four operating zones: a feeding zone (A); a distribution zone (B) with a constant or decreasing section along the axis of the equipment in the direction of the gas propagation, preferably in the form of a cylindrical, truncated-conical or truncated-pyramidal solid, consisting of one or more parts of said solid, optionally substituted by their external or internal envelope curved surface, wherein the angle (alpha) of the generatrix with the vertical parallel to said axis is between 0 and 65 DEG ; a reaction zone (C), consisting of a catalytic bed, with an increasing section along the axis of the equipment in the direction of the gas propagation, communicating with said distribution zone by means of a common transversal section, preferably in the form of a truncated-conical or truncated-pyramidal solid, consisting of one or more parts of said solid, optionally substituted by their external or internal envelope curve surface, in which the angle (beta) of the generatrix with the vertical parallel to said axis is between 5 and 65 DEG ; a gas expansion zone (D).